GILA RIVER BASIN

09510180 ROCK CREEK NEAR SUNFLOWER, AZ

LOCATION.--Lat 33°43'49", long 111°30'28", in SE¹/₄ sec.35, T.5 N., R.8 E., Maricopa County, Hydrologic Unit 15060203, on left bank 300 ft upstream from culvert on State Highway 87, 0.3 mi upstream from mouth, and 10 mi south of Sunflower. DRAINAGE AREA.--15.2 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1963	08-16-63	262		1971	08-19-71	924	
1964	08-01-64	916		1972	06-22-72	151	
1965	01-07-65	175		1991	03-01-91	1,140	
1966	12-22-65	1,900		1992	08-23-92	1,140	
1967	07-16-67	570		1993	01-08-93	2,550	
1968	12-19-67	1,230		1994	11-14-93	242	
1969	01-27-69	43		1995	03-06-95	1,240	
1970	09-05-70	1,540		1996	09-11-96	65	

Discharge rating table developed September 1991

Gage height (ft)	Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)		
4.0	126	6.5	1,570		
4.5	258	7.0	2,150		
5.0	458	7.5	2,850		
5.5	735	8.0	3,700		
6.0	1,100	8.5	4,700		

Magnitude and probability of instantaneous peak flow based on period of record 1963-72, 1991-96

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probablility, in percent						
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%	
573	1,520	2,410	3,810	5,030	6,390	
Weighted skew	(logs) =	-0.42				
Mean	(logs) =	2.72				
Standard dev.	(logs) =	0.54				

[†] Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
412	7.3	3,680	0.2	3.0	16.0	2.3	5.0

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